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	09,5578.00	16-Jen-1996 18:10	Page 2(9)
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	const char - (SPNames!) - (		
	*PSI*,		
	*Advantis*, *Concentric Research Corp.*.	•	
	*MCI*. *Portal information Hetwork*		,
	**************************************		
	**100,000 - \$249,999*, \$320,000 - \$499,999*,		
•			
	*\$10 million - \$49,999,999". *\$50 million - \$499,999".		
	si billion and over		
	const char 'cmpStrfl . (		
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	*10 * 10 * .		
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	-1.000 and over-		
	const char 'genderStril .		
	· roan.		
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-	- 42 - 42 - 42 - 42 - 42 - 42 - 42 - 42		٠
•	10.584.00 E.C.O.		
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16-Jan-1996 18:10

OBJECTS.CPP
// Objects.cpp
Binclude \*etdefa.h\*

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OBJECTS. CPP
                                                                                                                                                                                                                                                                                                                                                       Int nAde();
                                                                                                                                                                                                                                                                                                                                                                                                           extern Ad .badxeyErrorAdr
                                                                                                                                                                                                                                                                               BOOL User: (cookieCapable () const
                                                                                                                                                                                                                                                                                                     extern Ad .defaultAd:
                                                                                                                                                                                                                                                                                                                                                                                       int nextAd - 0;
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                                                                                                               domainType - dtEworld;
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                                                                                e brProdigy:
domainType - dtProdigy;
                                                 domeinType - diDelphir
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CONFIDENTIAL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              domaintype - drUnknovn;
// fort int i - 0; i < MARSICS; i++ )
// #icCodes[i] - 0;
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bver1 - bver2 - 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         in_addr ipAddr . (in_addrt) ipr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          enerworkDescription •
                                                                                                                                                                     b. commit ():
                                                                                                                                                                                                                                                                                                                  p.l.domain.lsEmpty() }
                                                                                                                                                                                                                                                                                                         ar agilio241 -
                                                                                                                                                                                                              gender • g.GetAt(0);
                                                                                                                                                                                                    cap (name) ;
                                                                                                                                                                                                                                              c. fetchNext () ) (
                                                                                                                                                                                                                                                                                                                                         email Addra
                       location.state ** "\r\n";
location.sipCode ** "\r\n";
                                               cicle er "\r\n",
                                                       1.u\1/. .. aweu
                                                                         domainTypeNames[domainType] << "\r\n";
(proxy ? "Yes" ; "No") << "\r\n";
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:ation.areaCode << \*\r\n\*

\*\* (int) bvor2 \*\* \*\r\n\*)

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void Useriidescribe[Databases db, stratreams text]

«« (int) ipAddr.S_un.S_un_b.e_b! ««
«« (int) ipAddr.S_un.S_un_b.e_b! ««
«« (int) ipAddr.S_un.S_un_b.e_b! «« "\r\n",
«« (int) ipAddr.S_un.S_un_b.e_b! «« "\r\n",
«» (int) ipAddr.S_un.S_un.B.e_b! «« "\r\n",
«» (int) ipAddr.S_un.S_un.B.e_b! «« "\r\n",
«» (int) ipAddr.S_un.S_un.B.e_b! «» (int) ipAddr.S_un.B.e_b! «» (int) ipAddr.S_un.S_un.B.e_b! «» (int) ipAddr.S_un.B.e_b! «» (int) ipAddr.S_un.B.e_b!
dvalue(eq), e.l.emailname, FALSE);
reat (eq), * and domain=*);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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(1) +6+4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cursor el-db);

Loudour bladvertiseriD, sizeot(advertiseriD));

char sqilliD34] - "eelect id from advertisers where sitekey-";

addvalue[sqi], sitekey, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           umer o UmeriilookupUmerfodb, umerlb, requent, TPUE, TPUE);
iff ub -- 0 l | page - 0;
                                                                                                                                                                                                                                                                                                                                                                                                                             Database 'db - getFromPool();

User 'user - Userilokuplaer('db, userIP, request),

User 'user - Userilor - 0,

DWOPD advertierID - 0,

// todo flat if not assigned a user ID, tuse IP)?

// todo flat if not assigned a user ID, tuse IP)?
               18-3an-1996 17:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        iff ok ) {
    i.activity...
    i.activity...
    ii.acvertiserID != 0 }
    ii.acvertiserID := 0 }
    ilogactivityluser, advertinerID. type);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  iff from he straighpifrom, "www.", 4) .. 0 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 yold GetPequestrisendAdiconst Char 'from'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Database •db • getfrompoolTimeout();
                                                                                                                                                                                                                                                                                        const char eq e strehtlp. ''ll:
iii q e o 0 1
ob e FALSE;
                                                                                                                                                                                                                                                                                                                                                                    Bitekey . Cstringip. 9 . pl:
                                                                                                                                                                                                              static DNOPD lastFTP;
startlatency - GetTichCount();
                                                      type . inforequent;
break;
case : s;
type . Sale;
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C.exec(#q1);
Ok - C.fetChNoxt();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           delete user;
relesseToPool (db) ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  User "user!
SitePage "page!
Ad "ad;
                                                                                                                                              defaulti
oh • FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  db.scomit ();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  from .. 41
                          GETREQUEST, CPP
                                  Page 5(0)
                                                                                                                                                                                                                                     test es jumping from document: " es from es "\r\n":

test es "

uould jump to: "

est es "

uould jump to: " ad->jumpTo es "\";

es es hrefe\" es fronst fonst fair ej ad->jumpTo es "\";

es es hrefe\" es fronst fair ej ad->jumpTo es "ejan\r\n\r\n";

test es a fronst char ej ad-," es fronst char ej ad->fullWamet) es "\r\n\r\n";

test es
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CString a . "MTTP/1.0 200 OKYT/nContent-Type: text/html/t/n";
a . "\transforts-CENTEN-A bref-"bttp://206.4.219.5/jump/";
a . "\transforts-CENTEN-A bref-"bttp://206.4.219.5/dd";
a . "\transforts-CENTED-"/206.4.219.5/dd";
a . "\transforts-CENTED-"/1206.4.219.5/dd";
a . "\transforts-CENTED-"/html:'; // Width-468 Height-60
a . "\transforts-CENTED-"/html:'; // Width-468 Height-60
c-write| [Const ther '] a, a.GetLength() );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HIGHLY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DC 069494
                                                                                                                                                                                                   SitePage · page · SitePage::lookupPage(from, request);
                                             18-Jen-1996 17:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     c.verite! (const char *) hdr. hdr.GetLangth() );
c.verite!buf, n);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        vold GetRequest, Lettvity (const char .activityStr)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // go sheed and send for best response time sendFile(c:)\Lan\nhtml\\dot.gif*);
                                                                                                                                                                                                                                                                                                                                                   ** **html>*body**hl>Jump medirect </hl>*!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               vold GetRequestiisendFrame(const_char_from)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    stratream text(buf, 32000, los::out);
                                                                                     Ad .ad . AdiifindSentToluser, from)!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            test 44 *4/pres4/bodys4/htmls*1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CSCRING In a do->(ileName)

Leat 44 *centersing erc=\'\'

44 (const cher *) in

44 *\'*;
                                                                                                                           // Cix
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   // send the file first
ActivityType type:
Cating siteRey:
BODL ok o TRUE;
evitch( sectivityStr)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              type - Interest!
break!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       logJump(ad, user, page);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Int n . test.pcount();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BOOL bad . FALSE!
                                                                                                                         iff ad a. 0 ) {
delete usern
return;
                                                                                                                                                                                                                                                                                                                                                 // fill content
```

delete pager delete adr delete umerr

SETREGUEST. CPP

```
etatle Int randCutoff - 0; //RAMD_MAX / 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BOOL doffe - luser-vemplesrObject() && likely && luser-vprpxy && luser-vfrptfied && user-vuniqueness >= utikely && luser-vprpxy && rand() < randCutoff && (startLatency - lastFTP > &000);
                                                                                                                                                                                                                                                                                                                                                                                                                                         VERIFY! ReleaseMutex ((tpMutex) );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  erriog << "Trying FTP\n";
erriog << " user " << user-special) << '\n';
erriog << " browser " << browserNames(int) user-sbrowser) << '\n';
erriog << " url " << e << '\n';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cstring a . *Location: */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // Remember that we're doing FTP (or user. Only do once.
user-stepfried - TRUE;
user-supdateFTPTried('db);
                                                                                                                                                                                                                                                                                                                                     db-scommit();
releaseToPool(db);
                                                                                                                                                                                                                                                                                                                                                                            errtog.fluehili
                                                                                                                                                                                                                                                                                                                                                                                                              logAdSendlad, ueer, pagel:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sendErroric. ")02 Moved Temporarily", e);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Deter - stattlatency/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ering in - ad-ygetFileName();
.. (conet char *) in;
                                                                                                                                                                                                                                                                                / Co. leavell:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            printfibut, "lia", user-vgetiDilli
                                                                                                                                                                                                                                                                  nd( db. ad. user);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   waitforsingleObject (ftphutex, 0);
if it du i. wait_railkD it du i. wait_rimeout i {
                                                                                                                                                                                           tatic int counter:
[[ ..counter & 2 ]
ad-yealesi();
                                                                                                                                  Adsendiad, user, pageli
                                                                                                                                                                 embersendiad, user, from);
bedend . CottichCountil,
                                                                               1..eanoaeta
                                                                                                          0011190011100
                                                                                                                                                                                                                                                                     // this function calls releaseToPoolil
                                                                                                                                                                                              // update SI every 4 or so deliveries
                                                             DC 000402
                                             CONEIDENLIV
HICHFA
```

delete user:
db.commit();
relesseropool(idb);

// Must do this so activity will be logged properly.
// See GetPequestriactivity/)
user-ymakePermanent(db);

//(.cs.enter();

logJumpled, user, pagel:

delete page:

```
7age 7(1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       // delete page:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CETREQUEST . CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // jumpingWhereifrom);
// return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  void GetPequestiitakeJump(const char '_(rom)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Database 4db - getfromPool():
                                                                                                                                                                                                                                                                                                                                                                                                                      iff from 66 atraicmpf_from, "vuu.", 4) == 0 }
_[from i= 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         User "user . User::lookupUser(db, user15, request, FALSE);
                                                                                                                                                                                                                                                                                                                                                                                        CString from:
                                                                                                                             Ad .ad . Ad::(indSentToluser. (rom):
SitePage .page . SitePage::lookupPagcIdb. (rom, request):
                                                  CString a "Location: ";
a -- ad-sjumpfoi// - "?[rom-iaf";
a · *\r\n";
sendError(c, *)0) Moved Permanently*, *);
c->close();
                                                                                             ///t.ce.leavell:
                                                                                                                                                                                                                                                                                                                                   const char *p * strchr(_trom, '?');
iff p ** 0 ) [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                adsendTimeWarlendSend . mtartLatency):
                                                                                                                                                                                                                                                            (rom = from:
char buf[51];
usprint[buf, "no ismap ld: lp", user -- 0 ? 999 ; (int) user->browser, (const char ".
message(buf);
                                                                                                                                                                                                      from . CStringi_from. p - _from):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-Jan-1996 17:13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page 8(8)
```

GITARQUEST. CPP

10-Jan-1996 17:12

// Iff v -- GET) {
// TRACE("get \a\n", (rom);

ad . AdiigetAd (\*db. user. page. V .. GET) !

page - SitePage: lookupPage[\*db, from, request];

```
// if a user record stready exists, it's probably because // this if address is shared with other users (proxy, IP pool) // ethis if address is shared with other record; we don't want to create another record; we don't want to the other copies to different people! u-suserio = 0; // create new record
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               // adjust constant as traffic increases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // sendij should commit the DN If it does any DN operations because // the caller commits alicad of time so that the transaction won't // remain open while the file is sent.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  // Hormally we adjust SI for an ad an it is delivered.
// However, occasionally should do all ads in case one hasn't
// been delivered but time has passed.
                                                                                                                                                                                                                                                                                                                      iff //strchrip, '/') -- 0 is strchrip, '\')
stratrip, '-.') -- 0 ]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           vold GetPequestiisendiDatabases db. Ad .ad. User 'u'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Coale sendCoate,

if tub is 0 ) {

if turshasCookie } {

if urscoaleCapable() & inrelinedOut }

if urscoaleCapable() & inrelinedOut }
                                                                                                                                                                                                                                                       iff 'p -- 0 | {
// send default
sendFile("c:\\ian\\html\\default.htm");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ittalifreetti // recair Si for all ada
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11 generate a conkie for the uner
                                                                                                                                                                                                                                                                                                                                                                       CString f . .c.//ian//htm1//'1
                                else if! [lleName.Left.[9] .. "/sysstato" ]
sysState[];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          // try again goor
                                                                                                    const char 'p - [llewame:
iff strattlep. //java/". 6) -- 0 |
iff strattlp. "...") -- 0 |
sendfile[p]:
                                                                                                                                                                      sendErroric, "404 Not Found");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  genderroric. *404 Not Found*):
                                                                                                                                                                                                                                                                                                                                                                                                f .. p;
sendfile(f);
return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CString hdr . cHeaders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                const BUFSIZE - 32000;
cher buf [BUFSIZE];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             counter . 1751
                                                                                                                                                                                                                        1 ./. .. d. 131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        recalc51 ();
                                                                                                                                                                                                                                                                                                                       - 6186
                                                                                                                                                                 0 1 0
GETAROURST. CPP
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      Page 110)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            che iti tilomame.Lettis) ... /viovad/* ) {
Chring offilemame.
espilemame.Pormati .c./lan/ade/to*. (LPCTSTR) tilomame.b);
                    18-Jan-1996 17:12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // This used to prevent multiple concurrent FTP
// requests right now because our FTPD implementation
// only dose one at a time.
//
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  else iff fileMame.Left(10) -- "/sondinfo/" ) {
sendinfol(const_cher .) fileMame . 10);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                [ileMame . Cstringfrequest, p . requestir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             else (ff fileMama.Left(4) -- '/si_- } {
// send into stuff
si__(fconst_chsf ') [lleMame + 4);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                const char 'p . strchritequest. '.
                                                                                                                                                                                                                                                                                                                                                                                                                extern const char .browserNames[],
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DWORD BEAFFLATENCY, endlatency;
                                                                                                                                                                                               d/toolkie/ist_util.h.
                                                                                                                                                                                                                                                                                                                                                                                                                                                const char 'progname - 'AdSvr',
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sendfilet expilename 11
                                                                                                                                                                                                                                                         include */d/toolkit/db.h*
include */d/toolkit/dbutil.h*
include */d/toolkit/dbpool.h*
                                                                                                                                                                                                                                           d/toolkit/crit.h"
                                                                                                                                                 /toolkit/sock.h*
                                                                                                                                                                                                                                                                                                                       satern CriticalSection fasts
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              void message (const char .);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               vold GetRequestisservice()
                                                                                                                                                                                                                                                                                                                                       //extern Database isfmain:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (1)eanbar - amene(1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     eatern HANDLE ftpMuters
                                                                                                                                                                                                                                                                                                                                                                     extern ofstream erriogs extern int activitys
                                                       // getrequest.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                void recalcifit
                                CETAROURST. CPP
```

18-Jen-1996 17:12

```
CETALOVEST.CPP
                                                                                                                                                                                                                                                                                                                                                                                                          // hdr ·· ·\r\nPragma; -no·cache•;
                                                                                                                                                                                                                             void Gernequesti jeyestato il
                                                                                                                                                                                                                                          // diagnostic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   hdr .. temp: 10);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ttt teendCookie.teMullil ) [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               char templicols
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      int v -- cer ) (
                                                                                                                                                                                                                                                                                                     coverited (const char *) hdr. (f) v .. GET |
                                                                                                                                                                                                                                                                                                                                                                              hdr .. ./r/n/r/n.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       // last-modified time
hdr -- ^\r\nLast-Modified: - . curHTTPTime!);
                                                                                                                                                                                                                                                                                                                                             endLatency - GetTichCount, 1) :
                                                                                                                                                                                                   etatic char etypeStrell - [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // release DB here so that we don't keep a db connection occupied // while sending the ad db.commit.il: releaseToPool(adb);
                                                                                   CString hdr .

*WTTP/1.0 200 OK\r\nContent-Type: text/html\r\nContent-Length: "!
                                                     Char bu(1)200011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // 1111 content
                                     etretream textibut, 33000, toeriqueli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    n . [.Read(buf. BUFS12E);
ASSERT( n i. 0 66 n i. BUFS12E );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               weprintfitemp.
-\r\nset.-Cookie: IAF-Nia; path-/; expires-Ned, 09-Nov-99 21:59:00 GMT-,
-\r\nset.-Cookie: valuel;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             n - getfilesize ad-viuliName() li
                                                                                                                                                                                                                                                                                           c.purice(but. n);
                                                                                                                                             ·lan Dev" );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                eendCpokle.value - u->get1D();
slackody bgcolor-Ittttttts\r\n*r
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // content length
                                                                                                                                                                                                                                                                                                                             hdr.GetLength() ):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-Jan-1996 17:12
                                                                              DC 069493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Page 3(8)
                                                  CONLIDENTIAL
                                                                                         HICHEL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GETREQUEST. CFP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // diagnostic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          hdr .- temp: 10):
hdr .- temp:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              test ac eshisfystem States/hlvep*;

test ac estable borderel cellpaddingely;

test ac estractdacbahames/bas/tdastdasbsTypes/bas/tdastdasbsIs/bas/tdast

test ac estractdasbahames/bas/tdastdasbahda Bookeds/bas/tdas/train;

test ac estractdasbahda Sents/bas/tdastdasbahda Bookeds/bas/tdas/train;
                                                                                                      vold GetrequestrijumpingWhere(const char -{rom)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           for( int | . 0; i < ads.GetSize(); i.e.) {
Ad *ad * ads.GetAt(i);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 text << "</table>";
text << "</body></html>";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  // Get a db connection to lock the ada array so that
// it isn't reloaded or anything while we are processing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  c-verite( (const char *)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             releaseToPool (dbl /
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Database &db . .getfromfoolil:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          char temp[100]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    int n - text.pcount();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     User *user * User::lookupUseridb, userin, requesti:
user-:lookupAncillaryIntoidbl;
                                                                                                                                                                                                                                                                                                                                                                                                                                             char buf[32000];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CString hdr *
CString hdr *
                                                                                                                                                                                                                                                                                                                                        text as "a/presa/bodysa/htmls";
                                                                                                                                                                                                                                                                                                                                                                   text as "shtml'sabody bgcolor=fffffftsshlssing SRC-\"ianlogos-gif\" ALIGN-\"BOTTOM\"suser In-
text as "shtml'sabody bgcolor=fffffftsshlssing SRC-\"ianlogos-gif\" ALIGN-\"BOTTOM\"suser In-
                                                                                                                                                                                                                                                                                                                                                       user-rdescribe (db. cest);
                                                                                                                                                                                                                                                                                                                                                                                                                               stratream text(bul, 32000, losilout);
                                  User *user - User: :lookupUser(userIP, request, FALSE);
                                                             ASSEPT(FALSE);
// fix for multi-db conns
                                                                                                                                                                 delete user:
relesseToPool(6db);
                                                                                                                                                                                                                                                       hdr .. "\r\n\r\n";
                                                                                                                                                                                                                                                                                            int n . temt.prount();
char temp[100];
                                                                                                                                                                                                              c. purite (but.
                                                                                                                                                                                                                  c., write( const char
                                                                                                                                                                                                                                                                            toain, temp, 101,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            text or "etroctdoca href-\"http://ad.lantargetm.com/viewad/";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ad-sfileHame << */*co*:

**etd>* <* typeStrslad-stype) << *//td>*;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 content langth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hdr, hdr.Getlength() );
                                                                                                                                                                                                                                                                                           content length
                                                                                                                                                                                                                                   hdr. hdr.GetLengthil 1;
```

Page 4(8)

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CONEDENT. HICHEA

```
einclude "etdefa.h",
einclude "objecte.h",
einclude "/d/toolhit/trutil.h"
einclude "/d/toolhit/trutil.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // location.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOCATION.CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // next line should be in trutil.h
sxtern CountryTimeZoneMap mapCountryTimeZones;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               etruct leDaylightSavinge
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (m. Location::userPelativeTime( time_t timePelative )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DOOL daylightSavinge;
                                                 Iff ide.daylightsavings && daylight_blee (= TZ_DIAS_UNDEFINED )

tttime .- daylight_blee . 60 . 60;

else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if! country -- 256 ) {
  if! igetStateTimeZoneInfo(state, utc_offset, daylight_blas) }
  return FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | eDaylightBavinge ()
                                                                                                                                                                                                                                                                tenitas s'eute
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        int utc_offeet;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        return FALSE;
return gmeimelåterimel:
                                                                                                                                                            | If cimeRelative -- O, this assumes that they want the time

// relative to the current time

(*Time - timeRelative;

| (ittime)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TIME ZONE IMPOPMATION IN

DWORD F - Cettimezoneinformation(si);

daylightSavings - T -- TIME_ZONE_ID_DAYLIGHT;
                                                                                                                                                                                                                                                                                                                 day i ight_bias . HINORD (dwBlas) :
                                                                                                                                                                                                                                                                                                                                                                     bw0xD dw0iae;
{{ imapCountryTimeZonee.Lookup(country, dw0iae) }
return FALSS;
                                 time (sttTime) .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          23-Deg-1995 11:01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Page 1(1)
```

Page 1(1) 03-Jan-1996 17:04 // request.h H.TETUDE!

INUM VEED ( UNKNOWN, GET, HEAD, POST )! : | see Connections class Request

Hinclude \*/d/toolkit/sock.h\*

all idefined(\_REQUEST\_H\_)
adefine \_REQUEST\_H\_

DWORD getif() const { return userif; } const char's getRequest() const { return Connection's getConn() const { return Connection's getConnection's getConnec public:
Request (Connection \*c. Verb v.
const char \*requestText.
const sockeddr\_int from) virtual void service();

protected: 800L sendFile(const char \*fileName, const char \*insertStr \* 0): vold sendinternalError();

void sendError(Connection \*c. const char \*meg, const char \*headerField \* 0); Connection \*C;
conet cher \*request;
verb v;
Cstring (illename;
DWORD weetiP;

1 thus

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```
conet char cBrowser() . . User-Agenti";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   book Veeriicheck (CStringt veerhgent, conet char spat, Broweer b. OS of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               void message (const char * );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 static void matchiOSs oa, const char *userAgent, const char *pat, OS ol
                                                                                                                                                                                                                                                                                                                                                                                                                                    void UserialiftOS(const CStrings userAgent)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ICC broweer I. brUnknown )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         iff atratr(userAgent, pat) 1. 0 )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    int | - etrlen(pat);
if | weerAgent.La(t(i) -- pat ) (
browser - b;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         return PALSE,
                                                                                                                                                                                                                                                             else it! userAgent.Find("Mindows") >= 0 } {
   it! userAgent.Find("32bit") >= 0 }|
   userAgent.Find("95") >= 0
                                                                                                                                                                                                                                                                                                                                                                                                            iff weerAgent.Find(*X11*) >- 0 ) {
                                                                                                                                           else (() userAgent.Find("WIN95") >= 0 ) {
   os = osWin95;
                                                                                                      elee It! weerAgent.Find[-win16-] >- 0 ) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return PALSE,
    elee (ff weerhgent.Pind("WinNT") ... 0 ) {
on - owlinhT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        const cher .b . userAgent;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FOLUEN TRUEF
                                                                             lee itt weerAgent.Find("MacIntosh") >= 0 ) (
                                                                                                                                                                                                                                                                                                                    matchios, userAgent, *AIX*, osUnixiRIX);
matchios, userAgent, *IRIX*, osUnixiRIX);
                                                                                                                                                                                                                                                                                                                                                                                 matchice, userAgent, "SunOS", osunixSuni!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               . etrchelp. '/'ll
                                                                                                                                                                                                   os - cowinizi
                                      matchios. userAgent. *PPC*, osMacFPC);
matchios. userAgent. *68K*, osMacG8);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1111ver(p . 1)1
                                                                                                                                                                                                                                                                                                                                          userAgent, -Linux", GunixOSF1);
                                                                                                                                                                                                                                                                                                                                                                   Linux*, couniations);
                                   DC 069489
COMŁIDENLIVI
HICHTA
```

// header.cpp

NEWDER . CPP

30-Dec-1995 17:31

einclude \*erdefR.H\* einclude \*objecte.h\* linclude \*/d/coolkit/ist\_util.h\*

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Page 1(3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HEADER . CPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          oldsymbol{II} derive information about the user from the request header
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        void User i i headerDerive (const. char * requestifeader)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   const char "us . strattlequentHeader, chrowner);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gr.. userAgent.Left(70);
message(s);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             // if no user agent field, something weird we // don't know much about, don't assume unique.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                whilet ware . . .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         uniqueness - uUnlikely:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        const char op . strchr (us.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CString userAgent(us. P · us);
it( userAgent.Left(s) . * *MOZilla/* ) {
browner * brietscape;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          else (() userAgent. Left(112) .. . NCSA Mossic/" ) [
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             eine iff atracmpfuserAgent. "nolbrowser/". 10) .. 0 | {
browser - brAOL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          else if attracmpluserAgent, "IMENG/", 61 -- 0 ) (
                                                                                                                                                                                                                                                                                                                                                       else if userAgent.Left(28) .- "Hierosoft Internet Explorer/" ) {
// Hierosoft Internet Explorer/4.40
browser - brHierosoft/
liftveriftonst char *) userAgent - 28);
                                                                                                                                                                                                                                                                            else iff userAgent.Left(8) -- "HotJava/" ) [
                                                                                                                                                                          else iff userAgent Left (16) .. *Enhanced_Mosaic/* ) {
   browser - brenhancedMosaic;
else itt userAgent.Left[1]] .- "NetCruiser/" ) {
    ittVsetItcomet cher :) userAgent : 1]);
    browser - briecCruiser;
    os - oswin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                matchios, userAgent, "Windows", osWinl:
matchios, userAgent, "XII", osUnixUnknown);
matchios, userAgent, "X Window", osUnixUnknown);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      lifeVer((const char *) userAgent + 12);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        browser . brNCSA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  littoS(userAgent);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           liftVerticonst char il userAgent i nia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               uniqueness • uNo:
domainType • dtAOL;
jiftVerf(const Char •) unerAgent • 6);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               browser . bracks
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      uniqueness • uNo:
domainType • dtAOL;
liftVer((const char •) userAgent • 11);
                                                                                                                                                                                                                                                                                                                      matchios, userAgent, *Windows 95*, osMin95);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OS - OSMAC!
                                                                                                                                                                                                                                      liftver((const char .) userAgent . 8):
                                                                                                                                                                                                                                                               browser . brHotJava;
                                                                                                                   (I weerAgent. Find["Win32") >- 0 ]
                                                                                                                                                           iftverifconst char .) userAgent . 1611
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        . . . . .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-Dec-1995 17:31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Page 2(3)
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HIGHLY CONFIDENTIAL

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CONEIDENLIVE HICHEA void setStatus(const char \*s);
extern int adsSent;
extern int jumpsTaken;
extern int total)dSendLatency;
extern int total)dSendLatency;
extern int total)dSendLatency;
extern int poolTimeOuts;
extern int barter, lanDev, testAd;
void latencyMas(int n);
void adSendTimeMas(int n);
void adSent();

Page 1(1)

02-Jan-1996 14:24

STATUS.M

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Page 1(1)

11-Jen-1996 13:25

see CetRequest : public Request

nclude "request.h"

virtual void service();

( :de(inedi\_CETREQUEST\_H\_)
e(ine \_CETREQUEST\_H\_

getrequest.h FAEQUEST.X

// send info
void sendinfolconst char ·url);
void st\_(const char ·url);

DX 50

HIGHLY CONFIDENTIAL

16-8ep-1995 12:39

CONFIDENTIAL HIGHLY